Electrical World

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Construction of two power plants at Salto Grande Dam Sept 1 15
Hitachi, USSR agree to supply large power plants to developing nations Aug 15 17
Japan Electric Power Development Co decides to double number of Canadian Candu power reactors it plans to introduce from one to four Sept 15 32
Japan Electric Power Development announces long range plant to add 63,450 MW in next 8 years Aug 15 17
Japan expects to import 1-million tons of Chinese steam coal annually starting in 1980 Nov 1 18
Japan marks 32nd anniversary of bombing of Hiroshima by announcing that 9% of all electricity used in Japan is being generated by nuclear energy Sept 1 27
Kansai Electric Power: Installs Japan's first water cooled transmission system Dec 15 20
Uranium shipments from Australia to the US, Japan, and Europe are to start in 1980s Sept 15 13

FOREIGN--MALAYSIA

Chicago Group Red Reports available July 1 93

FOREIGN--MEXICO

International interties increase Nov 15 31

FOREIGN--NICARAGUA

Nicaragua hopes soon to be unaffected by the world energy crisis July 1 22

FOREIGN--NORWAY

Norway: Overhead line floated across fjord Oct 1 23

FOREIGN--PAKISTAN

Sale of nuclear fuel reprocessing plant to Pakistan by France is sure thing Oct 1 26

FOREIGN--PARAGUAY

Brazil will use HVDC as link between its 60

hz load and Paraguay's 50 hz generation to be installed at Itaipu hydro project Dec 15 20
Construction begins on huge hydro plant (Itaipu dam and power plant) July 1 46

FOREIGN--PHILIPPINES

Electrification in each Philippine province will be completed this year according to the Philippine National Electrification Administration Aug 1 15

FOREIGN--RUMANIA

Rumania and Canada sign nuclear cooperation agreement, clearing the way for Candu reactor sales to the Balkan nation Dec 1 24

FOREIGN--RUSSIA

Hitachi, USSR agree to supply large power plants to developing nations Aug 15 17
Russia is installing first of 10 640 MW turbines at Sayan Dam in eastern Siberia Aug 1 15
USSR has built a 1-MW experimental cryogenic turbogenerator at the All-Union Scientific Research Institute of Electro-Machine Bldg in Moscow July 15 19

USSR plans to build a 500-MW commercial MHD plant in the 1980s Nov 1 17

FOREIGN--SAUDI ARABIA

Taiwan Power: Saudi Arabia proceeds with crash program to built its power network by signing contract with Taiwan Power Sept 1 16

FOREIGN--SINGAPORE

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FOREIGN--SPAIN

Spain will have nuclear power stations capable of generating 8,600 MW by 1985 Aug 1 27

FOREIGN--SWEDEN

Joint Finnish-Swedish design team working on low temperature reactor July 1 21
Swedish method to enrich uranium is said to be as economic as existing method by its developer Dec 1 24
Wood pole treatment popular in Europe Oct 1 36

FOREIGN--SWITZERLAND

Wood Pole treatment popular in Europe Oct 1 38

FOREIGN--URUGUAY

Construction of two power plants at Salto Grande Dam Sept 1 15

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Brown Boveri: Turbine bypass boosts efficiency Oct 15 36

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Fuel users' tax sleeper in Carter energy pack July 15 25
Pennsylvania PUC phasing out fuel adjustment charge on electric utility bills Dec 1 32
Steam Station Cost Survey (20th): Fuel and Fixed charges boost energy cost to highest level Nov 15 44
Total energy use in US during 1976 rose 4.8% from 1975 July 15 58

FUEL--COAL

Apollo Chemical Corp: Molten coal ash flow test minimizes boiler problems Sept 1 57
Appalachian Power: Plant air aspirator unplugs raw coal feeder pipes Dec 15 80
Between now and 1986, electric utilities plan 951 generatingunits Dec 1 32
Between $106.4-billion and $134.7-billion will be needed to convert nation's industrial and utility boilers from oil and natural gas to coal by 1985 Dec 1 32
Bituminous Coal Operators'Assn: Wildcat strikes have idled coal miners for about 630,000 man days during first four months of 1977 July 1 50
California considering construction of 1,000 MW coal fired plant on eastern fringe of Mohave Desert Aug 15 62
Central Maine Power Co asks PUC for permission to build a 600-MW coal fired plant on Sears Island off Searsport July 15 58
CEI will switch to low sulfur coal for its coal fired plants Nov 15 17
Coal conversion section of Carter energy program passes House and Senate Oct 1 15
Competition between solid and liquid version of solvent refined coal for funds to finance larger demonstration projects appeared likely when Southern Co announced results of successful test burn of SRC Aug 15 62
Commonwealth Edison: First $1.8-million has been committed for a coal gasification test facility July 1 50
Commonwealth Edison: Will not convert its oil burning Collins station to coal unless ordered to do so by the government July 1 21
Comprehensive set of analytic computer tools developed to estimate the costs of surfact mining of coal Oct 15 38
Control coal dust at source Aug 15 77
Crushers solve frozen coal problems Aug 15 78
Detroit Edison given 6 months to show Michigan PSC how much coal it is receiving from suppliers Sept 1 34
Duke Power will get a temporary exception from air pollution controls if there is a miners strike in NC Nov 15 17
Energy Information Administration says production of electric energy by electric utilities in Aug 1977 totaled 195.9 billion kwhr compred to 198.5 billion in previous month Dec 15 47
ERDA and Exxon sign agreement to develop process for producing liquids from coal Sept 1 34
ERDA's first attempt to convert coal into clean burning liquid fuel is failure according to GAO Sept 15 15
Exxon: ERDA will provide $40-million in research funds for a coal-liquefaction project by Exxon Oct 15 38
FPC: Increasing by almost 19.9-million tons over the previous quarter, coal deliveries to electric utilities during second quarter of this year totaled 130.2 million tons Dec 1 32
First time use of peat to generate electricity in US is objective of proposed peat-mining project in three counties of eastern North Carolina Sept 1 13
Florida Power Corp has begun planning for a 600-MW coal fired plant that would be ready for service by October 1982 Aug 1 32
GAO study: Annual Production of 1.2-billion tons of coal is unrealistic Oct 15 13
Japan expects to import 1-million tons of Chinese steamcoal annually starting in 1980 Nov 1 18
Kentucky Power: Prespliced coal feeder belts yield major cost/time savings Nov 15 102
Large coal fired power stations of the future could produce electricity at lower cost and with 50% higher efficiency than present day plants, says GE Aug 1 32
Looking into possibility of developing its lignite holdings to fuel future power plants Dec 15 47
Major industries in Colorado, including Colorado PS Co, are joining Colorado Ute Electric Assn in a court challenge of the state standard set by Colorado Air Pollution Control Comm July 15 58
Methane gas released from coal mine in Pennsylvania will be captured and used to make electricity in a government/industry demonstration project Dec 1 32
Minnesota P&L: HVDC moves lignite energy to remote load Oct 15 62
Mitchell Maintenance System: Coal fired plant now a clean place to work Nov 1 55
Nail biting time for utilities Sept 15 6
National Coal Assn: Utilities will have to dip into coal reserves because of wildcat strike by coal miners Oct 1 15
Utilities will require about 400-million tons of new coal per year by 1985 Dec 15 17
Navajo Tribal Council votes to amend its controversial sulfur emission law Nov 1 32
New England Power: Awarded grant by ERDA to install and test coal oil slurry fuel system Sept 1 34
Ohio State University: 10 years from now monthly electric bills will reflect utility company's cost resulting from corrosion of equipment during gasification and combustion of coal to generate electricity July 1 50
Ohio Valley Electric Corp. Shield extends life of coal pulverizer springs Oct 1 49
Pedco Environmental submitting report to EPA indicating that TVA lags behind its region's private power companies in compliance with SO_2 regulations Sept 1 34
Pennsylvania Dept of Transportation develops method to help eliminate mine waste banks in anthracite and bituminous coal fields Sept 15 72
Pennsylvania P&L: Compressed air cracks coal blockages at Monitour generating station Aug 1 31
Pressurized air cannons keep coal moving Oct 15 79
Proposed water discharge regulations will increase coal prices and cut coal demand Nov 1 32
PS Co of Colorado: Colorado PUC narrows its definition of fuel costs it allows PS of Colorado to pass along to customers Nov 1 32
San antonio City PSB and New England Power Service Co have been awarded nearly $40-million in cost sharing contracts by ERDA to develop and demonstrate a coal/oil slurry as a primary fuel for generating electricity July 15 58
National Coal Assn: Says Oil and gas firms control only about 20% of coal production Oct 15 38
Slurry-pipeline bill readied for next year Dec 15 34
Solar energy probably won't displace a single nuclear or coal fired plant by the year 2000 Dec 15 47
Soros Associates: Cleancoal terminal solves a fuel problem Oct 15 39
TVA allocates $180,000 for preliminary studies to determine whether byproduct char from coal pyrolisis process can be used as fuel in boilers Dec 15 47
TVA approves $150-million for coal washer at Paradise Plant Dec 1 17
TVA: Sound-pollution wall for coal shakers Oct 15 29
250 ranchers in Wyoming's Power River Basin are ready to counter the influx of major coal interests into their region by forming its own coal producingunit called Ranchers Energy Aug 1 32
Under the title of the Western Coal Transportation Assn, 35 electric utilities andeight energy firms met with Distribution Planning Specialists, a traffic consulting group to sharpen costing techniques and bargaining skills for expanding negotiations with rail carriers July 15 58
University of West Va Coal Research Bureau researches fuel shortages July 1 49
Use of Colorado's water for coal slurry pipelines may be banned next year Dec 15 47
Utilities, mine firms await federal stripmine Sept 1 19
Washington Comment: Slugfest over slurry Aug 1 20

FUEL--GAS

Commonwealth Edison: First $1.8-million has been committed for a coal gasification test facility July 1 50
FPC predicts that interstate supplies of natural gas will decline Aug 1 32

National Coal Assn: Says oil and gas firms control only about 20% of coal production Oct 15 38
Public Service E&G: Says bid of Energy Development Corp has been accepted by US government Sept 1 34

FUEL--NUCLEAR

Long Island Lighting: New way to finance fuel Oct 15 9
President Carter urges establishment of an international nuclear fuel bank Nov 15 32
Sales of nuclear fuel reprocessing plant to Pakistan by France is sure thing Oct 1 26
Sandia Labs: Test of pressurized nuclear fuel shipping cask Nov 1 21
Wisconsin Electric Power: Survey shows few persons would oppose erection of a nuclear plant in their county July 1 50

FUEL--OIL

Alaska Village Electric Coop: Rigid foam maintains level of arctic tanks July 15 71
Commonwealth Edison: Will not convert its oil-burning Collins station to coal unless ordered to do so by the government July 1 21
GAO contends that President Carter's energy plan will not decrease US Oil imports by 1985 Aug 15 17
General Electric's Motor & Drives Div: US using only 40% of potential hydro capacity July 1 50
National Coal Assn: Says oil and gas firms control only about 20% of coal production Oct 15 38
New England Power: Awarded grant by ERDA to install and test coal oil slurry fuel system Sept 1 34
Public Service E&G: Says bid of Energy Development Corp has been accepted by US Government Sept 1 34
San Antonio City PSB and New England Power Service Co have been awarded nearly $40 million in cost sharing contracts by ERDA to develop and demonstrate a coal/oil slurry as a primary fuel for generating electricity July 15 58

FUELS OUTLOOK

Commonwealth Edison's first $1.8-million has been committed for coal gasification test facility; Wisconsin Electric Power Co survey shows very few persons would oppose erection of nuclear plant in the county wherethey live, even fewer would oppose construction of a coal plant; Bituminous Coal Operators Assn: Wildcat strikes have idled coal miners for about 630,000 man days during first 4 months of 1977; Ohio State University: 10 years from now the monthly electric bill will reflect utility company's cost resulting from corrosion of equipment during gasification and combustion of coal to generate electricity; GE's Motors & Drive Div: US uses only about 40% of potential hydro capacity July 1 50
Western Coal Transportation Assn: 35 electric utility and 8 energy firms met with Distribution Planning Specialists, a traffic consulting group, to sharpen costing techniques and bargaining skills for expanding negotiation with rail carriers; Total energy use in US during 1976 rose 4.8% from 1975; Central Maine Power Co asks PUC for permission to build a 600-MW coal fired plant on Sears Island; Major industries in Colorado, including PS of Colorado, are joining Colorado Ute Electric Assn in a court challenge of the state standard set by the Colorado Air Pollution Control Comm; San Antonio PSB and New England Power Service Co have been awarded nearly $40-million in cost sharing contracts by ERDA to develop and demonstrate a coal/oil slurry as a primary fuel for generating electricity July 15 59
Large coal fired power stations of the future could produce electricity at lower cost and with 50% higher efficiency than present day plants according to GE; 250 Ranchers in Wyoming Powder River Basin are ready to counter intrux of major coal interests into their region by forming their own coal products unit; Florida Power Corp has begun planning for a 600 Mw coal fired plant which would be ready for service by October 1982; FPC predicts that interstate supplies of natural gas will decline this winter, raising possibility of renewed gas shortages Aug 1 32
Competition between solid and liquid versions of solvent refined coal for funds to finance larger demonstration projects appears likely recently when Southern Co announced results of successful test burn of SRC; California is considering construction of a 1,000 MW coal fired plnt on eastern fringe of Mohave Desert Aug 15 62
ERDA and Exxon sign agreement to develop process for producing liquids from coal; New England Power Co awarded grant by ERDA to install and test coal oil slurry fuel system; PS E&G says bid of Energy Development Corp has been accepted by US government; Detroit Edison given 6 months to show Mich PSC how much coal it receives from its suppliers; Pedco Environmental submitting report to EPA indicating that TVA lags behind its region's private power companies in compliance with SO_2 regulations Sept 1 34
Pennsylvania Dept of Transportation develops method to eliminate mine waste banks in anthracite and bituminous coal fields Sept 15 72
Comprehensive set of analytic computer tools developed to estimate costs of surface mining of coal; NCA says oil and gas firms control only about 20% of coal production; EPRI will provide $40-million in research funds for coal liquefaction project by Exxon Oct 1 38
Colorado PUC narrows definition of fuel costs it allows PS Co of Colorado to pass along to customers; Navajo Tribal Council has voted to amend its controversial sulfur emission law; Proposed water discharge regulations will increase coal prices and cut coal demand by 3-million tons/yr by 1985 Nov 1 32
Pennsylvania PUC begins to phase out fuel adjustment charges on electric utility bills; Methane gas released from coal mine in Pa will be captured and used to make electricity in a government/industry demonstration project; Between $106.4-billion and $134.7-billion will be needed to convert nation's industrial and utility boilers from oil and natural gas to coal by 1985; FPC: Increasing by almost 19.9 million tons over the previous quarter coal deliveries to electric utilities during second quarter of this year totaled 130.2-million tons; Between now and 1986, electric utilities plan 951 generating units Dec 1 32
Energy Information Admin says production of electric energy by electric utilities in Aug 1977 totaled 195.9 billion kwhr compared to 198.5-billion in previous month; Use of Colorado's water for coal slurry pipelines may be banned next year; TVA allocats $180,000 for preliminary studies to determine whether byproduct char from coal pyrolisis process can be used as fuel in boilers; Solar energy probably won't displace a single nuclear or coal fired plant by the year 2000; With leases on over 200-million tons of lignite reserves in northwestern Louisiana, Central Louisiana Electric Co looking into possibility of developing its lignite holdings to fuel future power plants Dec 15 47

FUEL--PLUTONIUM

Atomic Industrial Forum: President Carter's rejection of plutonium adds new uncertainty to nuclear power field and jeoparidizes US energy goals Aug 15 30

FUEL--URANIUM

Evidence mounts that there is indeed an international uranium cartel July 15 17
Future demand for uranium enrichment in US is projected in a study by Duke Power, Electro-Nucleonics, TVA, and EEI Oct 1 26
Israeli government amassed asecret nuclear arsenal 10 years ago by hijacking European uranium and smuggling uranium from a plant inPennsylvania Dec 15 34
Schlesinger: US will continue to be a reliable source of enriched uranium Nov 1 17
Swedish method to enrich uranium is said to be as economic as existing method by its developer Dec 1 24
TVA sues 10 foreign and 3 domestic uranium producers alleging collution Dec 15 19
280 lb of weapons-grade uranium are missing from a Pennsylvania plant Aug 1 27
Uranium mine and mill will supply more than one-third of Socaled's nuclear fuel for power generation through 1990 Nov 1 24
Uranium shipments from Australia to the US, Japan, & Europe are to start in 1980s Sept 15 13
Westinghouse: Are verbal agreements on six Westinghouse uranium contracts binding Nov 1 15
Baltimore G&E: Retrofitting with CL fuses Dec 15 54

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Groundbreaking ceremonies for Tokamak fusion test reactorheld Dec 1 24
National self interest remains the nub of EEC debate on nuclear fusion research Sept 1 27
Oak Ridge National Lab Fusion Energy Div researchers developed four neutral beam injection systems for Princeton Large Torus, a fusion research device, at Princeton Univ's Plasma Lab July 15 33
Sandia Labs: Scientists have produced first fusion neutrons in the US byusing electron beams to compress BB-sized fuel pellets July 15 33

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GENERATION--COMBUSTION TURBINE

Energy Conversion Alternatives Study compared advanced systems for base load power generation Oct 1 32
GE: Optimum generation mix saves dollars Sept 1 30
Industrial Acoustics Co: Silencing engine generator sets Sept 15 71
Riley-Beaird: New distillation system produces diesel fuel directly from crud oil Aug 1 73

GENERATION--HYDRO

Appalachian Power: Compressed air reduces hydro maintenance costs July 1 77
Construction begins on huge hydro plant (Itaipu dam and power plant) July 1 46
Construction of two power plants at Salto Grande Dam Sept 1 15
Dickey Lincoln Project: US Army Corps of Engineers predicts great environmental damage from D-L project Oct 1 17
Duke Power will build pumped storage hydro project in Oconee County, SC Sept 1 15
Japan's Electric Power Development Council announces plan to add 63,450 MW in next 8 years Aug 15 17
Nuclear energy surpassed hydro as source of electric generation in US Dec 1 24
Reclaimed water produces a bonanza harvest Aug 15 79
Russia is installing first of ten 640 MW turbines at Sayan Dam in eastern Siberia Aug 1 15
Seattle City Light: FPC approves adding height to Ross Dam Aug 15 28
Small hydroplants for the Northeast Aug 15 61
South Carolina E&G: Pumped storage can be unique Aug 1 28
West tightens belt as drought enters second year Oct 1 24
Western drought takes its toll on Folsom Lake storage reservoir, a hydroelectric recreation facility of Burec Sept 1 19

GENERATION--NONCONVENTIONAL

GENERATION--FUEL CELLS/BATTERIES

Con Edison will test nation's first fuel cell power plant under a joint research project sponsored by a consortium of utilities, ERDA, and EPRI Aug 15 17

Japan's Electric Power Development Council announces long range plan to add 63,450 MW in next 8 years Aug 15 17
Nicaragua hopes soon to be unaffected by the world's energy crisis July 1 22
Pacific G&E: New units to be built at The Geysers Oct 15 31

GENERATION--MAGNETOHYDRODYNAMICS

USSR plans to build a 500-MW commercial MHD plant in the 1980s Nov 1 17

GENERATION--NUCLEAR

Coordination could ease containment-heat woes Sept 1 33
England's CEGB agrees to early construction of Drax B nuclear station Nov 15 19
FPC: Nuclear kwhr growth rate slows Aug 1 22
Illinois Commerce Commission starts yearlong study on plant productivity and reliability so it will be able to consider these factors in future rate cases Dec 15 19
Japan's Electric Power Development Council announces plan to add 63,450 MW in next 8 years Aug 15 17
Metropolitan Edison: Recorders help avoid forced outages Sept 15 70
NERC: Coal fired and nuclear plants are the only way to meet future energy demands Oct 15 13
Northern States Power: Clearing reactor-coolant clogging at Prairie Island nuclear plant July 15 59
Philadelphia Electric: Cutter safely snips channel disposal costs Aug 15 75
Public Service E&G: Offshore power plants: Still afloat Aug 15 58
Steam Station Cost survey (20th) Nov 15 43
Busbar-energy costs break all records Nov 15 43
Fuel and fixed charges boost energy cost to highest level Nov 15 44
Operating costs rise 37% since 1974 Nov 15 48
Construction costs go up 57% in 2 years Nov 15 51

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Companies eyeing the solar energy market should be interested in 1977 edition of Survey of the Emerging Energy Industry July 15 89
McDonnell-Douglas team's conceptual design for solar power plant accepted by ERDA; plant will be built and operated under partnership of Socaled and LADWP Sept 15 16
New England Electric System: Average energy savings of only 17% shown in a solar water-heating experiment conducted by NEES, far below 50% predicted July 15 19
Sandia Laboratories: Mirror power Sept 15 29
Sandia Laboratories: Solar mirrors melt steel in first test July 1 25
Solar energy could do job, meeting told Dec 1 22
Solar Energy Industries Assn meeting: Utilities to play big role in growth of solar energy Oct 1 23

GENERATION--STEAM

American Heat Corp: Plate heat exchanger checked out Dec 1 59
Appalachian Power: Plant air aspirator unplugs raw coal feeder pipe Dec 15 80
Appalachian Power: Push/pull rig monitors turbine standard movement Aug 1 61
Appalachian Power: Stop pulverizer leaks without entering mill Sept 15 134
Arizona Public Service: New way to fund construction Sept 1 11
Basin Electric Power Cooperative: Nebraska breaks off relations with corp that wants to build Wyoming power plant Nov 15 19
Brown Boveri Corp: Turbine bypass boosts efficiency Oct 15 36
Central Maine Power: In place turbine casing repairs save millions July 1 78
Coal fired power station being built in Latrobe Valley of Australia Dec 1 15
Columbus & Southern Ohio Electric: Ready to install grating cuts plant construction costs Nov 1 57
EEI survey: Orders for new electric generating units placed with domestic manufacturers by all classes of customers totaled 55 machines aggregating 23.6 Gw during 1976 July 1 93
EPRI facility monitors stack emissions Nov 1 31
EPRI has tests under way to treat brackish water for use in power plant cooling Nov 1 17
Energy Conversion Alternatives Study compares advanced systems for base load power generation Oct 1 32
ERDA gives TVA a grant toward design cost of 200-MW demonstration plant in Eastern Kentucky Sept 15 16
Florida P&L: Says New superefficient oil burner lowers cost and cleans air Dec 1 15
GE: Optimum generation mix saves dollars Sept 1 30
Hitachi, USSR agree to supply large power plants to developing nations Aug 15 17
Houston L&P is cleaning out oysters from cooling tower intakes at P.H. Robinson plant Sept 15 16
Illinois Commerce Commission starts yearlong study on plant productivity and reliability so it will be able to consider these factors in future rates cases Dec 15 19
Inhibiting implosion incidents Dec 1 30
Kentucky Power: Prespliced coal feeder belts yield major cost/time savings Nov 15 102
Maintain generation, limit blackouts Dec 15 44
Minnesota P&L: HVDC moves lignite energy to remote load Oct 15 62
Mitchell Maintenance System: Coal fired plant now a clean place to work Nov 1 55
Monongahela Power: Fluidized bed combustion sees flurry of activity as ERDA announces dedication of 30 MW demonstration boiler at Riverville facility Sept 15 15
NERC: Coal fired and nuclear plants are the only way to meet future energy demands Oct 15 13
North Carolina: Munis, coops prepare to generate Dec 15 33
Northern Indiana PS: Utility gets solid sulfur by FGD process Dec 1 23
Northern States Power: Nation's first commercial greenhouse to be heated by waste heat from generating plant Aug 15 19
NUS Corp: Desulfurization waste is disposable Nov 1 30
Ohio Power: Teflon seal saves money Aug 1 63
Ohio Valley Electric Corp: Shield extends life of coal pulverizer springs Oct 1 49
Ontario Hydro: Installation of new redesigned boiler hanger rods at Nanticoke generating station gets underway and should be completed by the end of November July 15 17
Pacific P&L and Black Hills Power & Light sponsoring a coal fired plant Nov 1 9
Pacific P&L: Make-break scaffolding saves seven days on overhaul Oct 15 78
Pennsylvania Electric Co: Special fixture cuts flange repair costs July 15 74
Pennsylvania Electric Co: 12 in. main steam line ruptured at Williamsburg generating station Sept 1 16
Pennsylvania P&L: Compressed air cracks coal blockages at Monitour generating station Aug 1 31
PS Indiana: Steam generator/turbine matching July 15 56
Soros Associates: Cleancoal terminal solves a fuel problem Oct 15 39
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Busbar energy costs break all records Nov 15 43
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Operating costs rise 37% since 1974 Nov 15 48
Construction costs go up 57% in 2 years Nov 15 51
TVA: Quick-lock pipe joint simplifies flyash disposal job Nov 15 103
Union Carbide: Powerplant simulator which reproduces conditions that occur when fish or other organisms are entrained through cooling water system developed Oct 1 17
USSR has built a 1-MW experimental cryogenic turbogenerator at the All-Union Scientific Research Institute of Electro-Machine Building in Moscow July 15 19
Vepco: Old stack is tower base Dec 1 21

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Alabama Power: Air power goes underground Oct 1 31
Boeing will build a 2.5-MW wind turbine under joint ERDA/NASA program Aug 15 17
Sandia Labs: 60-kw wind turbine goes under test Aug 1 19

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Texas Utilities 1,150 MW lignite fired Monticello station gets honors for outstanding engineering Dec 1 18

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Tacoma (Wash) Dept of Public Utilities: Purify oil at lowest cost Sept 1 36

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Doble Engineering Co Conference: Insulation integrity: Focus of attention Aug 1 45
FTC warns it will take action on false claims regarding home insulation after Jan 1 Dec 1 15
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Pennsylvania P&L: Low cost 'R' meter checks insulation's value Nov 1 51
Remedy sought for insulation treeing Nov 15 70
Union Carbide: Factors influencing treeing identified Dec 1 38

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Hydro-Quebec: Polymer insulators in service at 735 kv Oct 1 37
Utah P&L: Portable rainstorm douses salt storm fires Sept 1 58

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Northern States Power & Manitoba Hydro will build a new 500-kv intertie to exchange seasonal power Oct 1 17
Pennsylvania-NJ-Maryland interconnection celebrates 50th anniversary Nov 15 17

Southwestern PS: FPC reports on Lubbock intertie July 1 11

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Pacific G&E: Two linemen have been awarded back wages they lost during suspension by refusing to climb through telephone lines that appeared to be dangerously close together July 1 22

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Carter Administration estimates that US will need 300 more nuclear plants by the end of the century to meet electricity demand July 1 30
Carter Administration will permit ocean dumping of heated water from Seabrook nuclear plant July 1 19
Clinch River Breeder Reactor: House International Relations Committee votes to stop construction of the CRBR July 1 30
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Cogeneration gets its day in Washington Aug 1 21
Consumers and intervenors July 1 27
DOE goes into action as 12th Cabinet Dept Nov 15 29
Electricity Consumers Resource Council: Federal moves to revise electricity rates are based on myths Oct 1 15
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National League of Cities opposes nuclear generation for first time Oct 1 26
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Northwest hammers out power plan July 15 27
President Carter decides to build gaseous centrifuge nuclear enrichment plant at Portsmouth federal nuclear complex Aug 1 13
Rochester G&E: New York plant construction delayed despite one-stop hearing legislation approved in 1972 Dec 15 19
Sale of nuclear fuel reprocessing plant to Pakistan by France is sure thing Oct 1 26
San Diego G&E: Emergency legislation crucial to continuance of Sundesert nuclear plant Dec 15 34
San Diego G&E: New state law eases 1976 nuclear bans Nov 1 23
Senate-House energy conferees decide how utilities may charge for energy audits Nov 15 17
Short of war energy bill that flew through House bogs down in Senate Oct 15 13
State consumer agencies gain; US bill pending Oct 15 31
Slurry pipeline bill readied for next year Dec 15 34
Southern California Edison: Local district puts a tax on air pollution Sept 15 31
TVA: S. David Freeman would settle EPA-TVA fight out of court Nov 1 22
Texas Water Rights Commission tells Lower Colorado River Authority it can sell water to South Texas nuclear project July 15 20
US Senate refuses President Carter's request to kill Clinch River plant Aug 1 13
US Senate votes to continue research on CRBR and provide funding for research on Barnwell (SC) reprocessing plant, thereby providing two major setbacks for President Carter's energy plan Aug 15 30
US Supreme Court agrees to decide constitutionally of Price-Anderson law Dec 15 34
Utilities, mine firms await federal strip-mine rules Sept 1 19
Western Systems Coordinating Council: Court orders US to return fees to utilities July 1 28

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Central Illinois Light: Illinois Commerce Commission orders its first management audit of Central Illinois Light Sept 1 13
Detroit Edison: Will give up free light bulb program as part of a proposed agreement with drugstore owner who objected to it as unfair competition Dec 1 17
Florida Power sues former chairman, four oil firms, and a purchasing consultant, claiming they were involved in a conspiracy to defraud the utility Oct 15 16
Four Corners: Owners of Four Corners plant seek court action to prevent sulfur tax Oct 1 17
Pacific G&E: Stockholders have filed a suit in US District Court charging utility with failure to provide them adequate information about earthquake hazards at Diablo Canyon N-plant July 15 28
Southern California Edison will pay women and minority workers settlement in discrimination case Dec 1 17
TVA gains air pollution variances in Tennessee, but runs risk of plant shutdown in Alabama Oct 15 16
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Kentucky Power Co: Pressurized plug permits in-service boiler repair Dec 15 81
Metropolitan Edison: Recorders help avoid forced outages Sept 15 70
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Ohio Valley Electric Corp: Shield extends life of coal pulverizer springs Oct 1 49
Pennsylvania Electric: Aerial work platform can be moved by topside crewman Nov 15 105
Special fixture cuts flange repair costs July 15 74
Pennsylvania P&L: Pole top tool saves trip to shop Aug 1 59
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BAILEY METER CO: Inhibiting implosion incidents Dec 1 30
BALTIMORE G&E: Remote control by radio (special report on Automated Distribution) July 15 46
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Sodium bicarbonate additions remove sulfur from coal fired stack Dec 15 17
BLACK HILLS P&L: Sponsoring a coal fired plant Nov 1 9
BECHTEL: Negotiating with DOE to become A-E contractor for proposed defense nuclear waste repository near Carlsbad, NM Dec 15 34
BOEING: Will build a 2.5-MW wind turbine under joint ERDA/NASA program Aug 15 17
BONNER & MOORE ASSOCIATES: Comprehensive set of analytic computer tools developed to estimate the costs of surface mining of coal Oct 15 38
BORG-WARNER CORP'S YORK DIVISION: Load controller modulates chillers Nov 1 50

BOSTON EDISON: Big consumers fight time-of-day rates Nov 15 9
Nuclear power is economic choice for New England's increased electric power requirements in late 1980s Aug 15 30
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BURNS & MCDONNELL: 18 Nebraska cities are told that a joint effort in negotiating for power supply may result in even cheaper electricity Sept 1 15
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CENTRAL ELECTRICITY GENERATING BOARD: England's CEGB agrees to early construction of Drax B nuclear station Nov 15 19
CENTRAL ILLINOIS LIGHT: Ad series outlines problems and some solutions July 1 73
Load forecasting models used by five of Illinois six major investor owned utilities are worthless in predicting accurate annual peak load changes Oct 15 15
Illinois Commerce Commission orders its first management audit of Central Illinois Light Sept 1 13
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CHARLES MACHINE WORKS: Elburn Utility Equipment show shows $20-million of mobile equipment Oct 15 52
CHICAGO GROUP: Red Reports: Complete studies of electrical markets of Indonesia, Singapore, and Malaysia are available July 1 93
CIBA-GEIGY CORP: TVA: Quick lock pipe joint simplifies flyash disposal job Nov 15 103
CINCINNATI G&E: Coal fired plant (J.M. Stuart station) now a clean place to work Nov 1 55
CLEVELAND ELECTRIC ILLUMINATING: CEI will switch to low sulfur coal for its coal fired plants Nov 15 17
EEI's Rudolph: focusing on a different world July 1 39
Power generation began last month at Davis-Besse nuclear plant Sept 15 32
COLONY FARMS INC: First use of peat to generate electricity in US is objective of proposed peat mining project in three counties of eastern North Carolina Sept 1 13
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COLUMBUS AND SOUTHERN OHIO ELECTRIC CO: Coal fired plant (JM Stuart station) now a clean place to work Nov 1 55
Ready to install gratint cuts plant construction costs Nov 1 57
COMBUSTION ENGINEERING: Domestic manufacturers of nuclear reactors are in the midst of hard times Oct 15 32
COMBUSTION EQUIPMENT ASSOCIATES: Has signed a 20 year contract with City of Newark to convert solid municipal waste into energy July 15 89
COMMONWEALTH EDISON: First $1.8-million has been committed for a coal gasification test facility July 1 50
FM radio helps resolve turbine blade problems Aug 15 76
Trash burning: City optimistic, utility skeptical Nov 1 23
Utility, customers battle rate ruling Nov 15 9
Will not convert its oil burning Collins station to coal unless ordered to do so by the government July 1 21
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CONSERVATION CONTROLS CORP: Computerized ventilation controls may save storeowners 25% in heating and cooling costs Sept 1 15
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NYPSC probes deeper into blackout, safeguards Oct 15 29
Con Edison, pool lacked good communications Sept 15 29
Con Edison reports second quarter net income up 10% Aug 15 19
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Con Ed seeks light, less heat, on system Aug 15 25
Storm knocks 28% of Con Edison;s generating capacity off line Oct 15 15
Whr-meter calibrator doubles testing rate Nov 1 58
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CONSUMERS POWER: Crushers solve frozen coal problems Aug 15 78
Has successfully negotiated another big hurdle in its long delayed controversial attempt to build a nuclear plant in Midland, Michigan Dec 1 24
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Will give up free light bulb as part of a proposed agreement with drugstore owner who objected to it as unfair competition Dec 1 17
DOBLE ENGINEERING CO: Conference: Insulation integrity: Focus of attention Aug 1 45
DUKE POWER CO: Future demand for uranium enrichment in US is projected in study by Duke Power, Electro-Nucleonics, TVA, and EEI Oct 1 26
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Will get a temporary exception from air pollution controls if there is a miners strike in NC Nov 15 17
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Westinghouse: Are verbal agreements on six Westinghouse uranium contracts binding? Nov 1 15

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Select economical cable sizes Oct 15 50
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ELASTIMOLD: R&D Center completes first privately owned 230-kv substation in New Jersey July 1 93
ELECTRICITE DE FRANCE: Will train 350 technicians for construction of nuclear plant in Iran Nov 1 24
ELECTRICITY CONSUMERS RESOURCE COUNCIL: Rate schemes that try to shift electricity costs from homeowners to industry could create economic backlash July 1 19
ELECTRICITY SUPPLY BOARD: Maintain generation, limit blackouts Dec 15 44
ELECTRO-NUCLEONICS; Future demand for uranium enrichment in US is projected in a study by Duke Power, Electro-Nucleonics, TVA, and EEI Oct 1 26
EXXON: EPRI will provide $40 million in research funds for a coal-liquefaction project by Exxon Oct 15 38
ERDA and Exxon sign agreement to develop process for producing liquids from coal Sept 1 34

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FLORIDA POWER: Has begun planning for a 600-MW coal fired plant that would be ready for service by Oct 1982 Aug 1 32
Heat water with your air conditioner Dec 1 54
Sues former chairman, four oil firms, and a purchasing consultant, claiming they were involved in a conspiracy to defrqud the utility Oct 15 16
FLORIDA P&L: Appeals PUC decision to invert its residential rates in a rate order that also granted a$195.5 million rate increase Aug 1 15
At the prodding of PSC sets Sept 2 for early redemption of its 101.8% bonds due 2005 through an unusual method July 15 9
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Crew develops safe, two-minute rescue Sept 1 55
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Many utilities eye maintenance funds Sept 15 9
PSC denies FP&L petition to reconsider a lifeline inverted rate Oct 15 13
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FLUOR PIONEER: NRC approves a standard design that can cut the construction time of nuclear plant as much as two years Oct 15 [illegible]
FLUOR UTAH: Comprehensive set of analytic computer tools developed to estimate the cost of surface mining of coal Oct 15 38
FOSTER WHEELER: PS Indiana: Steam/generator turbine matching July 15 56
FOX ISLAND ELECTRIC COOPERATIVE: Cable replaces island generator Nov 1 40
FROST & SULLIVAN: Energy management system market expected to be worth $45-million

this year, $90 million by 1980, and $165 million by 1986 Oct 1 18

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Energy Conversion Alternatives Study: Compares advanced system for base load power generation Oct 1 32
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Large coal fired power stations of the future could produce electricity at lower cost and with 50% higher efficiency than present day plants, says GE Aug 1 32
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New York Power Pool: New tie models aid system operations Nov 15 82
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Pacific G&E: A 1,600 MW combined cycle plant planned Oct 15 13
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Test assures long capacitor life Oct 1 39
US using only 40% of potential hydro capacity July 1 50
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PSC approves inverted rate for Georgia Power as part of rate increase Oct 15 13
Georgia PSC halves requested rate hike' Oct 1 9
GIBBS & HILL: Has developed a standard nuclear plant which is adaptable to more than 80% of potential sites in US July 1 30
GITCO INC: Bucket booms protected with polyurethane wrap Sept 15 134
GORDIAN ASSOCIATES: Heat pumps pass still another study Nov 15 94
GOULD INC: BC Hydro & Power Authority: World's largest spacers installed in Canada Sept 1 39
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GULF MINERAL RESOURCES: Competition between solid and liquid version of solvent refined coal for funds to finance larger demonstration projects appeared likely when Southern Co announced results of successful test burn or SRC Aug 15 62
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GULF STATES UTILITIES: Energy information center gets out the word Nov 15 95
Safety rail prevents falls in leaving, entering buckets Sept 15 135
W. Donham Crawford leaving presidency of EEI; he is elected director of Gulf States Utilities and is expected to become its chairman and chief executive officer Nov 1 15

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Reclaimed water produces a bonanza harvest Aug 15 79
INDIANA & MICHIGAN ELECTRIC: Meter labels discourage theft of service July 1 79
Northern Indiana Public Service wants to lower rates for both electric and gas customers Aug 15 19
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INDUSTRIAL ACOUSTICS CO: Silencing engine/generator sets Sept 15 71
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JERSEY CENTRAL P&L: Contract to manage construction of Forked River nuclear station awarded to S&W Nov 1 24

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KENNECOTT COPPER: Reports earnings are still depressed because of low copper prices Aug 15 19
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Pressurized plug permits in-service boiler repair Dec 15 81
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H. KLINE & CO: New source book of marketing surveys and services now availalbe Aug 1 73
KRAFTWERK UNION AB: West Germany and Iran have signed letter of intent that covers construciton of four nuclear plants Dec 15 34

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LONG-AIRDOX CO: Pennsylvania P&L: Compressed air cracks coal blockages at Monitour generating station Aug 1 31
LONG ISLAND LIGHTING CO: Combustion Equipment Associates announces that Lilco has signed a letter of intent whereby Lilco will buy Eco-Fuel to supply 10% of total heat input at designated power stations July 15 89
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New way to finance fuel costs Oct 15 9
Official warns that if opponents succeed in stopping construction of Jamesport nuclear plant dire consequences could result for Long Island in 1980s Sept 15 32
PSC orders utility to buy new meters Nov 1 9
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Westinghouse: Are verbal agreements on six uranium contracts binding Nov 1 15
LOS ANGELES DEPT OF WATER & POWER: McDonnell Douglas team's conceptual design for solar power plant accepted by ERDA; plant will be built and operated under partnership of Socaled and LADWP Sept 15 16
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MCDONNELL DOUGLAS: Team's conceptual design for solar power plant accepted by ERDA; plant will be built and operated under partnership of Socaled and LADWP Sept 15 16
MCGRAW EDISON: Non PCB capacitors perform well Dec 1 42
Southern California Edison: Ease overvoltages due to faults Aug 15 64
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Long-range GNP growth seen close to full potential Sept 15 44
Utilities' cleanup bill rises by 37% July 1 81

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MARSH & MCLENNAN: Elburn Utility Equipment Show shows $20-million of mobile equipment Oct 15 52
MASSACHUSETTS ELECTRIC: Proposes a 30% discount on electric bills for elderly Dec 15 19
MERRILL LYNCH LEASING: Expected to buy Wyodak coal fired plant to be built by Pacific P&L and Black Hills P&L Nov 1 9
MERRILL LYNCH, PIERCE, FENNER & SMITH: Investors, consumers are overlooked Nov 15 9
METROPOLITAN EDISON: Contract to manage construction of Forked River nuclear station awarded to S&W Nov 1 24
Old electric meters never die Dec 15 82
Recorders help avoid forced outages Sept 15 70
Trim trees on computerized worst first outage rate basis Oct 15 81
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MITCHELL MAINTENANCE SYSTEM: Coal fired plant now a clean place to work Nov 1 55
MITRE CORP: Load management and communications methods July 15 48
MITSUBISHI CORP: Construction begins on two power plants at Salto Grande Dam Sept 1 15
MONONGAHELA POWER: Fluidized bed combustion sees flurry of activity as ERDA announces dedication of 30 MW demonstration boiler at Riverville facility Sept 15 15
MONTANA POWER: Standard & POor's lowers Montana Power's preferred stock rating to triple-B medium grade from single-A upper-medium grade July 15 9
Two coal fired units at Colstrip may be delayed by EPA Nov 15 20
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NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP: CFC $108.5-million bond sellout Dec 15 9
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NEW ENGLAND ELECTRIC SYSTEM: Average energy savings of only 17% shown in a solar water-heating experiment conducted by NEES, far below 50% predicted July 15 19
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NEW ENGLAND POWER SERVICE CO: Awarded $40 million in cost sharing contracts by ERDA to develop and demonstrate a coal/oil slurry as a primary fuel for generating electricity July 15 58
NEW ENGLAND POWER CO: Awarded grant by ERDA to install and test coal oil slurry fuel system Sept 1 34
NEW YORK POWER POOL: New tie models aid system operations Nov 15 82
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NORTHEAST UTILITIES: Ingenuity upgrades video training-tape operation July 15 73
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Wants to lower rates for both electric and gas customers Aug 15 19
NORTHERN STATES POWER: Clearing reactor-coolant clogging at Prairie Island nuclear plant July 15 59
Lake Superior District Power will be merged into NSP Nov 1 18
Nation's first commercial greenhouse to be heated by waste heat from generating plant Aug 15 19
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Raising the question of district heating in connection with the certification of need for 80 MW of generation in 1986 compounds an already difficult planning situation by introducing more uncertainty and delay July 1 21
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Desulfurization waste is disposable Nov 1 30
Philadelphia Electric: Cutter safely snips channel disposal costs Aug 15 75

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OHIO ASSN OF UTILITY INVESTORS: New stockholder group to lobby Nov 1 9
OHIO EDISON: EPA intends to force air pollution on 12 Ohio Edison coal fired plants Oct 15 15
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Ohio Power Siting Comm recommends that Ohio Edison not be allowed to build a nuclear plant complex Dec 1 24
Westinghouse Electric: Are verbal agreements on six Westinghouse uranium contracts binding? Nov 1 15
OHIO POWER: Dolly wheels on hand lift cut risk of battery acid spills Dec 15 82
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Simple template aids in shifting records to computer July 15 75
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OKLAHOMA G&E: Computer relay setting proven in use July 15 62
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Appliance use figures need revision Aug 1 51
California PUC studies feasibility of adopting air conditioning lifeline rates Dec 1 17
EEI members sharply disagree with certain stipulations in energy bill Sept 1 13
First commercial nuclear plant in US received operating license from AEC 20 years ago Oct 1 26
Extends its time of use rate to 650 customers whose demand is between 1,000 and 4,000 kw Aug 1 15
New units to be built at The Geysers Oct 15 31
Permission to resume operation of Humboldt Bay nuclear plant will probably be denied Sept 1 27
Shaped cargo nets for safe 'coptering of awkward loads Nov 15 104
Shareholders confront PUC Aug 1 11
Stockholders have filed suit in US District Court charging utility with failure to provide them adequate information about earthquake hazards at Diablo Canyon N-plant July 15 28
Two linemen have been awarded back wages they lost during suspension by refusing to climb through telephone lines that appeared to be dangerously close together July 1 22
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PACIFIC P&L: Biologist urge rerouting proposed 500-kv line across southern Oregon to avoid killing migratory birds July 15 19
Make-break scaffolding saves seven days on overhaul Oct 15 78
Reclaimed water produces a bonanza harvest Aug 15 79
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PEDCo ENVIRONMENTAL INC: Northern Indiana PS: Utility gets solid sulfur by FGD process Dec 1 23
Submitting report to EPA indicating that TVA lags behind its region's private power companies in compliance with SO_2 regulations Sept 1 34
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EPRI Facility monitors stack emissions Nov 1 31
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Special fixture cuts flange repair costs July 15 74
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Distribution work survey shows need for data sharing Aug 1 60
Low-cost 'R' meter checks insulation's value Nov 1 51
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Pa.-NJ-MD interconnection celebrates 50th anniversary Nov 15 17
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Seismologic minisurvey indicates UG problems Nov 15 101
Throwaway hardhat lamp for upclose night work Sept 1 59
Utility Fleet Manager's conference: Task force develops standard line truck Sept 15 133
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Rebarring foundation-cage work eased by alert lineman Aug 1 62
PORTLAND GENERAL ELECTRIC: Hearing-conservation test program is a full time effort Oct 15 79
POTOMAC ELECTRIC POWER: Pepco will install digital readout units in about 65 homes Aug 1 16
POWER AUTHORITY OF THE STATE OF NEW YORK: Federal government is responsible for choosing method for disposing of wastes from commercial nuclear plants Oct 1 26
POWER TECHNOLOGIES INC: Compact HV transmission now feasible Sept 15 90
Brazil: Reliability study aids system expansion Oct 1 42
PRUDENTIAL INSURANCE CO: Expected to buy Wyodak coal fired plant to be built by Pacific P&L and Black Hills P&L Nov 1 9
PUBLIC SERVICE CO OF COLORADO: Announces that NRC has given its authority to increase reactor power at Ft St Vrain' Dec 15 34
Colorado PUC narrows its definition of fuel costs it allows PS of Colorado to pass along to customers Nov 1 32
EPRI facility monitors stack emissions Nov 1 31
Journeyman and apprentice team up to save $7,300 Sept 15 135
Major industries in Colorado, including PS of Colorado, are joining Colorado Use Electric Assn in a court challenge of the state standard set by Colorado Air Pollution Control Assn July 15 58
Pole suspension technique saves outage time, money Sept 1 57
PUBLIC SERVICE CO OF NEW HAMPSHIRE: Carter administration will permit ocean dumping of heated water from Seabrook nuclear plant July 1 19
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Boiler explosion shuts down San Juan plant Aug 15 20
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PUBLIC SERVICE CO OF OKLAHOMA: Computer relay setting proven in use July 15 62
PUBLIC SERVICE ELECTRIC & GAS CO OF NEW JERSEY: Breaks ground for Battery Energy Storage Test Facility Nov 1 17
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Pa.-NJ-Md interconnection celebrates 50th anniversary Nov 15 17
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PUGET SOUND P&L: Helicopter helps tear down water crossing line, towers Nov 1 56

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REYNOLDS METALS: Plans to close its Chester (Pa) cable plant because of unprofitable and declining production of copper cable Aug 15 19
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RILEY-BEAIRD INC: New distillation system produces diesel fuel directly from crude oil Aug 1 73
RIO GRANDE INDUSTRIES: Use of Colorado's water for coal slurry pipelines may be banned next year Dec 15 47
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SAN ANTONIO PUBLIC SERVICE BOARD: Awarded $40 million in cost sharing contracts by ERDA to develop and demonstrate a coal/oil slurry as a primary fuel for generating electricity July 15 58
SAN DIEGO G&E: California PUC studies feasibility of adopting air-conditioning lifeline rates Dec 1 17
California utility funded plants built outside the state must get state PUC approval Nov 15 17
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New state law eases 1976 nuclear bars Nov 1 23
NRC informed that a previously uncharted earthquake fault may exist near the San Onofre 2 and 3 nuclear plants July 1 30
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Solar mirrors melt steel in first test July 1 25
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SECURITY INDUSTRY ASSN: New group to fight for utility investors Sept 15 9
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SIMPLEX: Cable replaces island generator Nov 1 40
SOLA BASIC INDUSTRIES: Acquired by General Signal Corp July 1 93
SOLAR ENERGY INFORMATION SERVICE: Companies eyeing the solar energy market should be interested in 1977 edition of Survey of the Emerging Energy Industry July 15 89
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